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L4: Entry 1 of 1

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Apr 21, 1993

DERWENT-ACC-NO: 1993-127458

DERWENT-WEEK: 199316

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TITLE: Pneumatic gun to apply paste-like material - has telescopic sliding piston of two or more sealed sections, to drive material ejector piston

INVENTOR: BRUECKNER, R; KLEMPA, O ; PLEHN, R

PATENT-ASSIGNEE:

ASSIGNEE

CODE

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PRIORITY-DATA: 1991DE-4134141 (October 16, 1991)

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PATENT-FAMILY:

	PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/>	<u>EP 537550 A1</u>	April 21, 1993	G	007	B05C017/015
<input type="checkbox"/>	<u>DE 4134141 A1</u>	April 22, 1993		006	B05C017/015
<input type="checkbox"/>	<u>DE 4134141 C2</u>	March 24, 1994		006	B05C017/015
<input type="checkbox"/>	<u>DE 59202077 G</u>	June 8, 1995		000	B05C017/015
<input type="checkbox"/>	<u>EP 537550 B1</u>	May 3, 1995	G	008	B05C017/015
<input type="checkbox"/>	<u>ES 2072071 T3</u>	July 1, 1995		000	B05C017/015

DESIGNATED-STATES: AT CH DE DK ES FR GB IE IT LI NL SE AT CH DE DK ES FR GB IE IT
LI NL SE

CITED-DOCUMENTS:DE 3607176

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
EP 537550A1	September 30, 1992	1992EP-0116696	
DE 4134141A1	October 16, 1991	1991DE-4134141	
DE 4134141C2	October 16, 1991	1991DE-4134141	
DE 59202077G	September 30, 1992	1992DE-0502077	
DE 59202077G	September 30, 1992	1992EP-0116696	
DE 59202077G		EP 537550	Based on
EP 537550B1	September 30, 1992	1992EP-0116696	

ES 2072071T3 September 30, 1992

1992EP-0116696

ES 2072071T3

EP 537550

Based on

INT-CL (IPC): B05C 17/015; B29C 41/08

ABSTRACTED-PUB-NO: DE 4134141C

BASIC-ABSTRACT:

The pneumatic gun has an outer casing (1), with space 92) for a disposable material package (3). It also has an ejection nozzle (5), compressed air connection (6), and a piston (9), to eject the material from the nozzle. A sliding piston (15) is located behind the ejector piston, and the compressed air is applied to the end of the sliding piston.

The sliding piston is formed as a telescopic piston, of two or more sections (18). These are sealed relative to each other. The end of the front telescopic section forms a closed surface on its pressure side. The sliding piston has a ring-shaped contact face (17). An intermediate section (20) with seals (19) forms a slide bearing for the front telescopic section.

ADVANTAGE -It is compact.

ABSTRACTED-PUB-NO:

EP 537550A

EQUIVALENT-ABSTRACTS:

A pneumatic spray-gun forces a disposable paste etc pack onto a nozzle by means of guided pistons. The thrust piston (15) is in fullface operable contact with the follower piston (9) and is designed as a telescopic piston having two sectors (18). The leading sector (18) is closed off on its pressure side. The piston (15) has a closed ring contact surface (17) and is here (17) at least smaller in outside diameter than the follower piston (9). An adapter (20) between sectors (18) is sealed (19) to both and forms a slide bearing for the front sector sliding into the rear sector of the piston (15).

The compressed air connection (6) is in the centre of the assembly space (2) and the retracted thrust piston (15) forms an annulus (21) with the outer housing (1) and is joined from this (21) to the piston (15) pressure side via bypass channels (22) designed into the housing (1).

USE/ADVANTAGE - Vehicle prodn, building etc sealant duties. Gun employs telescopic thrust piston to reduce overall length without loss of piston line and sealant drive.

EP 537550B

A compressed air gun for applying paste-like material, having an outer casing (1) open on at least one face with a receiver space (2) for a disposable pack of material (3) which is provided on its face opposite to the outlet point (4) with a follower piston (9) which is displaceable towards the outlet point (4) and which pushes the material in front of it and thereby ejects its, or in which the base remote from the outlet point (4) acts as such as a follower piston (9), and when the base acting as a follower piston (9) is pushed forwards the disposable pack of material (3) is pushed together, the compressed air gun having a material outlet nozzle (5) corresponding to an outlet point (4) of the disposable pack of material (3), and having a compressed air connection (6), wherein the compressed air is fed from the compressed air connecting (6) on to the side of the outer casing (1) remote from the material outlet nozzle (5), wherein a thrust piston (15) is

disposed in the outer casing (1) on the side remote from the material outlet nozzle (5) and is displaceably guided in a longitudinal guide (16) in the outer casing (1), wherein the compressed air is directed on to the pressure side of the thrust piston (15) remote from the material outlet nozzle (5) and wherein the thrust piston (15) which is moved by compressed air, can be pushed forwards in the correct position, characterised in that the thrust piston (15) is constructed as a telescopic piston with two or more telescopic sections (18) which are sealed from each other, and that the front telescopic section (18) of the thrust piston (15) forms a closed face on its pressure side.

CHOSEN-DRAWING: Dwg.1/1 Dwg.1/1 Dwg.1/1

TITLE-TERMS: PNEUMATIC GUN APPLY PASTE MATERIAL TELESCOPE SLIDE PISTON TWO MORE
SEAL SECTION DRIVE MATERIAL EJECT PISTON

DERWENT-CLASS: P42

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1993-097294